



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

MARCH 2021
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TOWER SITES I'VE KNOWN AND PHOTOGRAPHED ONLINE MEETING AND PRESENTATION

BRIAN O'CONNOR, KA2CGB, RARA VICE PRESIDENT

Please join us for our monthly membership meeting on Wednesday, 3 March at 7:00PM ET. We will review area Ham news and have an informative presentation.

This month's presentation is "Tower Sites I've Known and Photographed," a virtual visit to radio transmitter facilities around the country and a look at the real world of broadcast engineering today.

Scott Fybush, K2SDF, wears many broadcasting hats: a news anchor for 30 years (now with WXXI in Rochester); a journalist covering the broadcast industry for his own NorthEast Radio Watch (fybush.com) and the public broadcasting news source Current; an engineering consultant focusing on signal improvement and FCC regulatory issues; a station broker (StationSale.com); and as chief engineer for Rochester's WDKX, where he enjoys the view from the top of Xerox Tower.

You might know Scott best as "the tower guy," recognized for the thousands of broadcast facilities he's visited and documented on his website and in his annual Tower Site Calendar, now in its 20th year.

Scott hasn't been traveling very much this year, of course, but he still has plenty of interesting photos and stories to share in "Tower Sites I've Known and Photographed." Is it really radio's 100th anniversary year? That's one of the topics he'll cover – along with the steady decline of heritage AM sites, plenty of tales from the field and a few thoughts about what's in store for the broadcast community in 2021.

To register for the meeting, visit https://rochesterham.org/club_meetings.htm. Please arrive a little early to ensure you are completely set up. See you then!



RARA



BOARDZ BUZZ

TIM BROWN, WB2PAY, RARA EDUCATION COORDINATOR

This is my fourth term on the RARA Board. I continue to be impressed at the drive and commitment of all the board members. A tremendous amount of work goes on behind the scenes to produce meetings, public service events, and training sessions. The board is the inner core of the club, but the success of the club lies in its members who help develop our programs. Thank you to all who pitch in to help.

As Education Coordinator, I receive inquiries on a variety of Amateur Radio topics. Recently, Ed Kely KD2VBX, one of our General License Class students, asked:

"I'm wondering if RARA has a "forum" where I can post questions ?" I suggested that he and others join RARA's groups where they may pose questions and converse with members of the group. <https://groups.io/g/RochesterHam>

Building on the idea of a forum for discussions, RARA Elmers and Instructors agreed that an online Elmers Corner Q&A should be added to our Education Program.

On short notice, our first online Elmers Corner was held Saturday February 6th. There were 18 participants in the first session. Join the Elmers Corner on March 6th.

(See details in the Education Report.)

One educational specialty area that has developed over the past 2 years is the RXCWG Morse Code training program. In March of 2020, Covid 19 altered our operations. The Bi-Monthly meetings at my home had to be cancelled. This was disappointing to the 5 members who enjoyed sitting around our dining room table practicing code and eating the goodies my wife Cathy, KC2UAD, made for them. I sometimes thought they came for the sweets and code practice was an extra activity!!

RXCWG Morse Code training was impacted but not halted. Members meet online on Wednesdays and Thursdays to practice code and share highlights of their on air QSOs.

Covid 19 isolation has impacted all of us. We all miss the in person connections. Ham Radio's response to Covid isolation has been positive as illustrated by

- Increased enrollment in online License Classes
- Covid Safe VE testing https://www.rochesterham.org/license_testing.htm
- An increase in NEW ham licenses and upgrades
- Increased participation in online Meetings and Training sessions
- More Net activity
- New Nets starting up (Tim Magee's WB2KAO Rag Chew Net, Tuesday evenings at 7:30pm on the 444.850 repeater + offset, PL 110.9, Echolink node: 78007, Allstar node 45140)

Covid19 has made us appreciate more what we have. We are learning that little things matter. It has given us a closer bond with our family, friends and our RIGS!!

I wish I had a Covid Crystal Ball and knew when this will all be behind us. Until it is safe to meet again in person, please stay safe and healthy.

CALENDAR OF EVENTS

WEDNESDAY MARCH 3, 2021 - RARA General Meeting

7:00 PM - ON LINE

<https://attendee.gotowebinar.com/register/5704930843030496012>

THURSDAY MARCH 4, 2021 - RARA Board of Directors Meeting

6:30PM ON LINE

Email request for link to secretary@rochesterham.org

SATURDAY MARCH 20, 2021 - VE Testing



EDUCATION

TIM BROWN, WB2PAY, EDUCATION COORDINATOR

RARA LICENSE COURSES

Technician and General License classes will wrap up on March 16th for Technician and March 18th for General. VE Testing is available on March 20th.

https://www.rochesterham.org/license_testing.htm

ELMERS CORNER

During this Covid Isolation period, with no Elmers at meetings, no hands on Academy workshops, no visits to ham shacks, etc, resources for asking questions and gaining experience are limited.

RARA has established a NEW ZOOM ELMERS CORNER on the first Saturday of the month at 10am.

The next session will be on March 6th. This is an open Q&A format. Questions may be submitted ahead of time which will help Elmers have appropriate answers to inquiries.

RARA Elmers and Instructors have a wealth of experience and will be available to answer questions by participants.

Register for the ELMERS CORNER and submit questions by emailing education@rochesterham.org

RARA ACADEMY WORKSHOPS

March 13th 10am - QRP OPERATIONS - An Exciting Challenge

Our presenters will discuss:

- What attracts them to QRP operations
- QRP Rigs -- Assembled Rigs and Kit Built
- Power: watts vs. milliwatts?
- Power sources: Types of Batteries, Solar panels etc.
- Antennas for Portable Operations
- Memorable QRP experiences

Presenters: Karl Heinz Kremer, K5KHK, Ned Asam, W2NED, Bob Karz, K2OID, Scott Theis, W2LW

April 10th - EME MOON BOUNCE & SATELLITE COMMUNICATIONS
Presenter: Larry Keene, KD2LGX

MORSE CODE TRAINING

The RARA XRX CW Group assists Hams wanting to learn Morse Code or to develop their CW skills.

BEGINNERS MORSE CODE ZOOM CLASSES

Peter Fournia, W2SKY, hosts Morse Code classes on Thursday evenings 7pm. No experience required.

Join the group at any session.

Register at: pfournia@gmail.com

MORSE PRACTICE FOR ALL LEVELS ON ZOOM

Tim Brown, WB2PAY, hosts code practice for all levels on Wednesday evenings 7pm.

Register at: education@rochesterham.org

MORSE PRACTICE ON AIR

W1AW - <http://www.arrl.org/w1aw-operating-schedule>

RXCWG

Tuesday	4pm	50.250 MHz
Tuesday	8pm	50.250 MHz
Thursday	11am	7.053 MHz
Friday	11am	3.553 MHz

To set up a cw sked, contact

Peter at pfournia@gmail.com or

Tim at education@rochesterham.org

PUBLIC SERVICE REPORT

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

I have no changes to report for public service events this year. There are placeholders in our program for the Bike MS Event and Fairport Liftbridge Regatta. Events are being shown on the National Multiple Sclerosis website calendar but MS ROC the Ride bicycle course is not one of them as yet. I am hoping that the Fairport Liftbridge Regatta will be held but there is nothing yet on the Fairport Crew Club Regatta stating a date. I am confident that Pumpkin Patrol will be held as planned.

I will continue to track these events and report any updates that I learn about. For up to date information about all of our Public Service events take a look at our RARA website https://www.rochesterham.org/public_service.htm.

Please mark your calendars for our upcoming RARA Public Service Events

Silent Key

Frederick Cupp
W2DUC

December 28, 2020

Silent Key

Rodger Burkhart
W2RMB

January 26, 2021

Bike MS: ROC the Ride	Genesee Valley Park - Rochester, NY	TBD	TBD
Fairport Lift Bridge Regatta	Erie Canal – Fairport, NY	TBD	TBD
JOTA (Verify CTC Date)	Camp Babcock Hovey	Saturday	Oct. 16, 2021
Pumpkin Patrol	Overpasses of the New York State Thruway	Saturday & Sunday	Oct. 30-31, 2021
Holiday Science & Technology Days	Rochester Museum & Science Center	Monday - Wednesday	Dec. 27-29, 2021



Stan Hazen, K2SSB
1961—1962



Clifford Milner, Jr, K2SKO
1964—1965



Joe Hood, K2YA
1974—1975



Alan Komenski, AC2K
1979—1980



Ron Jakubowski, K2RJ
1985—1986

RARA PRESIDENTS

Most springs, one of our meetings is dedicated to Old Timers Night with a presentation on some subject from our or Amateur Radio history.

Sometimes, if some one remembers, we take a group picture of all the RARA presidents that are attending that meeting.

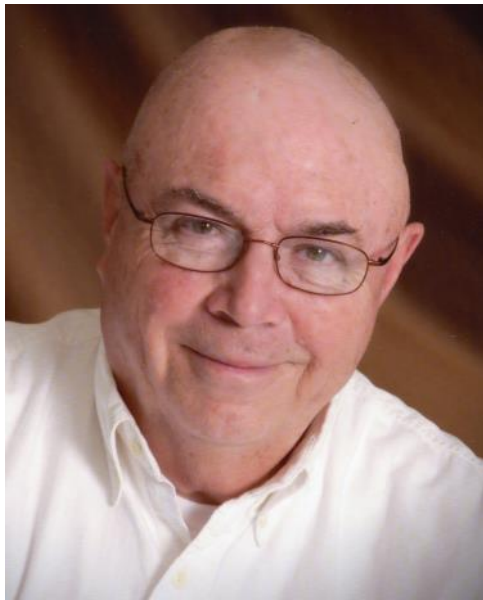
In honor of all our presidents, here is a collection of pictures.

Thank you for submitting your pictures and pictures of other presidents. If you happen to find other president group pictures, please send them in.

The complete list of RARA Presidents is found on our web site:
<https://www.rochesterham.org/officers.htm>



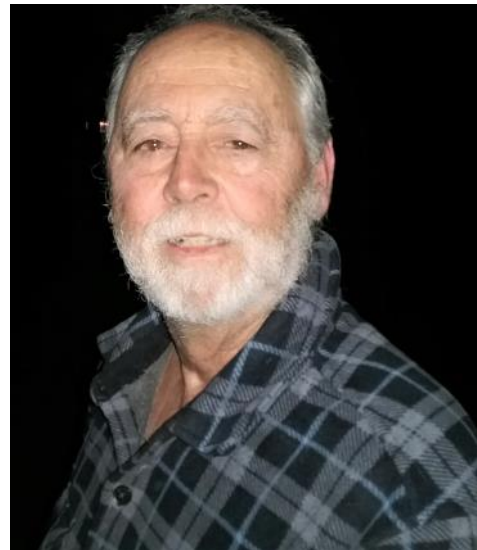
Edward Gable, K2MP
1977—1978



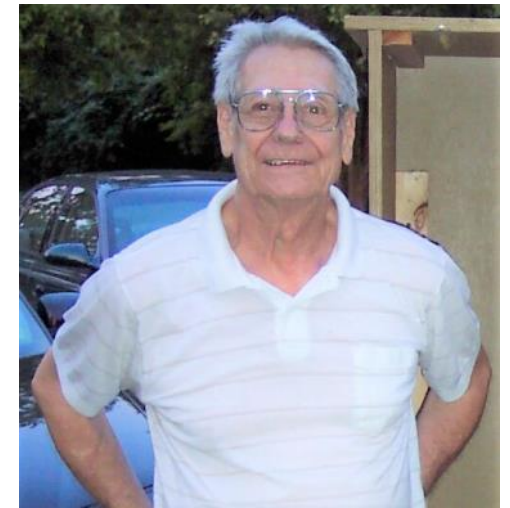
**Robert Hobday, N2EVG
1989—1990**



**Rick Wells, W2RW
1998-1999**



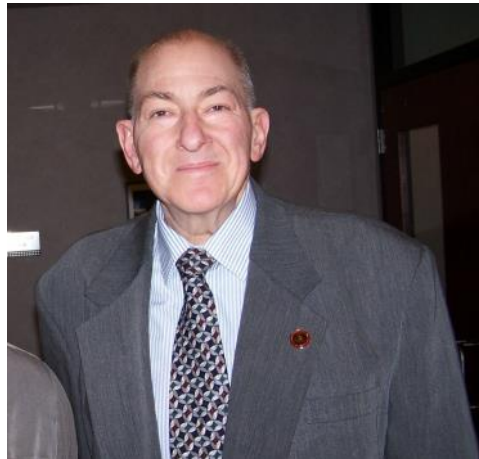
**Peter Fournia, W2SKY
2001 - 2002**



**George Plattert, AA2FO
2003 - 2004**



**Lloyd Caves, N2PU
1992-1993**



**Keith Freeberg, N2BEL
2000 - 2001**



**Marykay Vesco, KC2DPG
2002 - 2003**



**Bradford Armstrong, W1YX
2004 - 2005**



James DiTucci, N2IXD
2007 - 2008



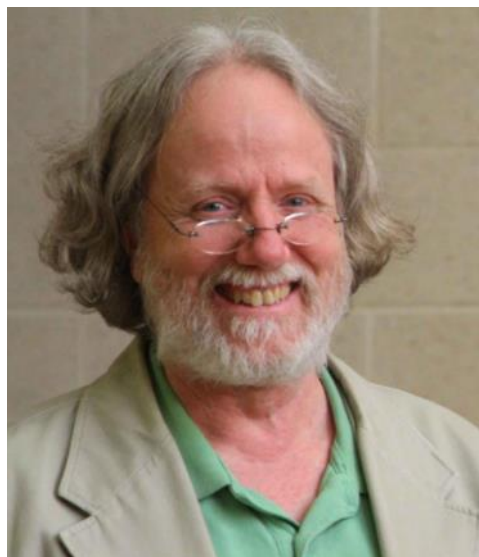
Duane Fregoe, K2SI
2009 - 2010



Tim Guyot, KB1POP
2018 - 2020



Frank Schramm, WB2PYD
2008 - 2009
2010 - 2012
2014—2015



Forest Shick, WA2MZG
2016 - 2018



Tim Barrett, K9VB
2020 - 2021



Past RaRa Presidents May 7, 2004

First Row Left to Right: Otto Buntzer WB2RJB 1980-81, Dick Fish W2OWF 1948-49, Cliff Milner Jr. K2SKO 1964-65, Fred Halik K2EU 1956-57, Harold Smith K2HC 1965-66, Jim Collinsworth N2JC 1976-77

Second Row Left to Right: George Platteter AA2FO 2003-04, Art Debruycker W2YGW 1996-97, Peter Fournia W2SKY 2001-02, Bill March WA2CER 1975-76, Keith Freeberg N2BEL 2000-01, Loyd Caves N2PU 1992-93, Dick Goslee KG2I 1986-87, Len Gessin WA2ZNC 1978-79, Ed Gable K2MP 1977-78



RaRa Presidents April 2019

Left to right: Tim Guyot KB1POP, Frank Schramm WB2PYD, Ed Gable K2MP, Forest Shick WA2MZG, Robert Hobday N2EVG, Clifford Milner, Jr. K2SKO and Jim DiTucci N2IXD

RArA SUMMER PICNIC

TIM BARRETT, K9VB, RArA PRESIDENT

The RArA Summer Picnic is back! This year it is on Saturday July 10th (11am – 2pm). So put that date in your diaries now! As usual, the venue is Mendon Ponds Park, but we have opted for an open location, the Devil's Bathtub Shelter, rather than the customary lodge, in keeping with the need to allow social distancing as far as possible. There is good parking at the location, and space / trees for antennas. We will have the club's radios and antennas set up so there will be a chance to operate if you wish. There is no outlet electricity, but we will have battery power available so feel free to bring your battery-operated radios.



Devil's Bathtub Shelter, Mendon Ponds Park

Traditionally, the club has provided and cooked food for all, but we are reviewing the food plan and keeping an eye on advice and rulings. It is likely that food will be limited to bring your own, and we will update that as we get closer to the event. There is a grill available and we have charcoal so there is nothing to stop us having a great time. Attendance is open to all RArA members and their families so please join us on July 10th!

PROFESSOR'S PIC(k)s

JEFF SONSTEIN, KD2RRB

[Whole Lotta Shakin' Going On](#)

[5 Watts](#)

[Optical Data Transmission Speed](#)

[Morse Code Phishing](#)

[Online School for Weather](#)

[CubeSats](#)

[Old Compilers and Old Bugs](#)



Courtesy March 1955 QST

RARA MEMBERSHIP REWARDS PROGRAM

TIM BARRETT, K9VB, RARA PRESIDENT

If you were at the February General meeting you will have heard me describe some changes we have implemented for the RARA Membership Rewards Program. To remind you, this program is open to all members of the club and points are awarded for performing services for the club. These services are listed in detail on the [RARA Membership Rewards page](#). Points are accruable, and can be redeemed when you wish. They do not expire, and can roll over from year to year, as long as your membership is kept current (a lapse in your membership will delete your points balance). Accrue and save points towards any redemption objective.

Here are the ways you can use points:

- Renew membership or put towards banquet tickets.
- [Join the ARRL at RARA's discounted rate.](#)
- Obtain gift certificates for DX Engineering or Ham Radio Outlet.
- [Obtain training study guides for license tests.](#)
- [Donate Points towards RARA projects.](#)

The items in red are recent additions. We are particularly excited to offer the fifth item. From time to time the club will set targets to purchase something of benefit to the club. Members with points are then invited to donate some of their points towards this target. We think this is a great way to support the club and is in response to requests from members.

If you would like to earn points, there are many ways you can contribute, all described on our [webpage](#). One easy way is to write an article for the Rag. That is not difficult, all you need to do is think of a topic, write a few words about it and add a photo or two and send it to editor@rochesterham.org. You do not need to be an expert so take a look around your shack, do you have an interesting piece of equipment or something interesting to say about what you have been doing recently?

RARA BANDPASS FILTER DRIVE

TIM BARRETT, K9VB, RARA PRESIDENT

Some members have said they would like to have a way of giving points back to the club and so we have come up with this idea.

Purchase a Bandpass Filter for RARA's Outdoor Events

One of our members has very kindly offered to donate sufficient points to purchase a 40 meter bandpass filter so that we can operate more than one radio on that band at external events. We are asking members to donate points so that we can also purchase a 20 meter band pass filter. The unit we have selected costs \$140 or **280 points**. The picture is for the 40M model, we are looking to purchase both the 20M and 40M units.



If you would like to donate 10 points (or whatever you wish) that will help us to get to our target of having both filters ready by the time we are able to hold outside events. Please email membership@rochesterham.org if you wish to contribute and, thanks in advance! I'm pleased to say that following the launch we have already raised 75 points towards our target of 280 so we are off to a good start. Please check out how many points you have [here](#) and think about making a donation! Progress towards the target will be announced each month in the Rag.

2021 ROCHESTER HAMFEST MARCH UPDATE

2021 ROCHESTER HAMFEST TEAM

At the February 4 RARA Board of Directors meeting, at the recommendation of the Hamfest Committee, we made a decision to cancel our Rochester Hamfest that we were planning to hold on June 5, 2021 at the Hilton Exempts Fireman's Field.

All of us agreed that there was too much uncertainty surrounding the COVID situation as the date draws closer. We very much want to have the event, but the health safety of attendees and volunteers is our priority. In addition, we want to protect club resources from possible loss resulting from committing funds then having to cancel the event.

Moving forward, we will look for ways for RARA to participate in any events that do happen. We have indicated our interest in holding the 2022 Rochester Hamfest at the Hilton Exempts Fireman's Field.

Antique Wireless Association's Printed Circuit Boards

Just a quick letter to update the RARA membership on the latest developments created by the AWA Skunkworks. AWA is now offering a series of bare printed circuit boards (PCB) that find important uses in the shack and are fun to build. Here is the current lineup of high-quality PCBs:

1. Regulated Variable High Voltage Power Supply PCB, \$16.50

These PCBs can be used as a component to power antique radios, plate/screen/bias supplies, bipolar HV power supplies, and for general use on the bench. How about a 10v-600v variable DC supply for your next project?

2. Low Power AM Broadcast Transmitter PCB, \$20

These PCBs are selling internationally in big numbers to those that want to broadcast internet audio to vintage AM radios located throughout the house. They are in compliance with Part 15 and the transmitting range is truly spectacular at 75-100 feet. The sound quality is amazing.



3. Signal Sniffer – An AF/RF Signal Tracer PCB, \$16

These PCBs can give rise to a compact and self-contained signal tracer. Some hipsters are using them as guitar amplifiers!

4. Capacitor DC Leakage Tester PCB, \$25

Capacitors don't last forever and some experimenters desire to reform older electrolytic capacitors. In fact, the large manufacturers suggest that it may be necessary to re-form new electrolytic caps that sit on the shelf for longer than six months. Leaky caps can cause trouble and cause smoke to be released. The AWA Capacitor DC Leakage Tester PCB is a great addition to the shack and gives rise to nominal variable DC from 10v-600v.



All proceeds benefit AWA and its mission. Prices include shipping to USA addresses. For more information, check out:

<https://antiquewireless.org/homepage/purchase-pcb-items/>

Please share this information far and wide. If you have an idea to give to AWA's PCB program, please send me a note (Dean@antiquewireless.org). AWA won't be able to do everything, and your support of AWA and its mission is greatly appreciated! Happy Building!

LOVE OF VACUUM TUBES

TIM BARRETT, K9VB

One of our long-term members, Jerry Svoboda, KB2QIU tells us that when his eight year old grand-son, Nate, who lives in San Jose CA with his parents, visits his grandparents here in Rochester, NY, his favorite place is the basement. One big attraction down there is the two or three thousand vacuum tubes which Jerry sells at hamfests in non-Covid times. Nate loves the concept of the vacuum tube and is discovering its purposes, he can already solder and breadboard modern circuits.



Nate's favorite present this last Christmas came from his grandfather. It's a display base for several vacuum tubes, among them a 6J6, a 1F4, a 6V6, and an acorn tube. All the tubes are removable from the wooden base, which is drilled out to accept their pin configurations. A dot of white paint marks the filament pins and the gift came with two battery packs: a D cell and a 9 volt cell, both with alligator connectors. Nate loves to see the glow of the tubes and knows which filaments can't withstand the higher voltage. He has been an on-the-air guest in his grandfather's station QSOs during pre-Covid visits and wants more than anything to "get back down the basement." You may already have seen this photo in the March edition of QST, Nate is getting famous for his electronic interests!

MY TEKTRONIX STORY

TIM BARRETT, K9VB

I have always had a fascination for big fancy test gear. In fact, as a teenager back in the late 1960s I somehow managed to get on the mailing lists of Hewlett Packard and Tektronix and would receive their large format hard-bound catalogs full of pictures of laboratory grade equipment that I could only dream about, mostly of course I had no understanding of their function or purpose, but they sure looked good.

I still have the fascination for vintage lab quality test gear and that same tube gear no longer costs thousands, but it does need a lot of TLC. One restoration project I have is a Tektronix 535A, a beautiful piece of equipment from the early 1960s that I rescued from a church basement in Syracuse, of all places, where it had been languishing in the cold for many years.

That is a long project, but I do hope to get it back into full working order. It was the type of equipment in use when NASA was developing the Apollo project that put men on the moon, so it is worth the effort in my view. This model weighs in at 66lbs and is not a portable device, despite having a carry handle on the top! It contains 63 tubes, so no problem about keeping the basement warm. Bought new back in the day this cost around \$1,400, that is around \$12,000 in today's money.



My Tektronix 535A Restoration Project



Rows and Rows of Vacuum Tubes



Ceramic strips used for small components

As you can see, the standard of engineering is amazing. While these are complex beasts, with some nasty high voltages, the careful design makes them easy to work on. All the passive components are silver soldered onto Tektronix made ceramic strips. Tek even included a roll of silver solder inside the cabinet so you are not tempted to use tin-lead solder which could damage the silver alloy connectors in the ceramic strips.



MAX station at Millikan Way, Beaverton, Portland, right in the Tektronix campus

In pre-covid days I made frequent trips to Portland, Oregon as my company's main operations center was based there. Of course, I knew that is where Tektronix is based and soon discovered they had a museum of vintage Tektronix products. I lost no time in taking a morning off work to head out on the Max subway to Beaverton for a guided tour.

The museum is on the Tektronix campus and is small but packed with Tektronix

history, from their first oscilloscope through the tube and solid-state eras.



Early Tek equipment at the museum

One of the nice things about the museum is that most of the volunteers spent years working at Tek and know the products inside out. I mentioned a problem I was having with my restoration and the guide pulled out the schematic for my model and showed me immediately the component he thought was causing the problem. I was impressed!

They have a good selection of Tektronix equipment and the collection continues to grow with new acquisitions.



The type 546 was a genuine double beam 'scope rather than dual trace. It had two electron guns so each beam could be triggered separately



Display of 1960s era tube-based oscilloscopes



A view of mainly solid-state oscilloscopes



4051 Graphics System – World's First desk-top personal computer from 1975 with BASIC and tape storage

If you are in the Portland area, there is plenty to do, it's a great city but a visit to the [Vintage Tek Museum](#) is not to be missed! There are also some good tours on [YouTube](#) if you are interested in finding out more.



RAGS OF THE PAST


ED GABLE, K2MP, RARa HISTORIAN

20 Years Ago, March 2001

Peter Fournia, W2SKY, RaRa VP and Program Chairman, wrote in his delightful style that combined snappy details with entertaining lyrics, to introduce the next speaker to be Scott Bauer, W2LC, our Western New York ARRL Section Manager. Scott loosely titled his talk "The Care and Feeding of Amateur Radio" and thereby offered RARa members the golden opportunity to gain insight into the ARRL and how it is administered in the field. Scott's goal is to take your opinions and arguments back to Bernie Fuller, N3EKR, our Atlantic Division Director. And there were many things on our plate back then with discussion points being the possible elimination of the Morse Code requirement, elimination of the Novice and Advanced license classes, increasing antenna restrictions and other hot topics. RaRa meetings at this time were held in the Henrietta Fire Hall. With the 2001, Rochester Hamfest quickly approaching our Hamfest information expert, Lloyd Caves, WB2EFU (N2PU), wrote to inform attendees on yet more programs and activities to expect. Lloyd told us of new programs including Professor Bill Hopkins, AA2YU, presenting on digital modes available to Amateurs today including PSK31, MFSK16 and others. Coming from ARRL Headquarters was Ed Hare, W1RFI, the ARRL HQ Laboratory Supervisor, will build a two meter yagi that you can easily emulate. Also from the ARRL and speaking on DXCC in 2001, will be Dan Henderson, N1ND, the ARRL Contest Manager. As long as Dan was here for the Hamfest, he agreed to hold a QSL Card checking session for those applying for a DXCC award. Finally, for this ninth session of this ARRL affiliated conference, Atlantic Division Vice-Director, Bill Edgar, N3LLR, will host the ARRL gathering. Lloyd closed saying to come back next month for additional Hamfest news. RARa President Keith Freeberg, N2BEL, along with several volunteers, made friends and history when he visited school kids at Thomas Jefferson Middle school. Ham radio was of course involved where at the other end of a 2 meter link was Dr. Clifford Janey, the Rochester School District Superintendent, who was in his office. The kids and Dr. Janey enjoyed their chat where some new classes were discussed. Dr. Janey was so impressed he went overtime and made his staff wait 30 minutes, thinking this was more important than a staff meeting. Good think-

ing and a great job by Joe KA8WJH, Jim WB2YJH, Keith N3HGN, Peter W2SKY and Wyonna N2UEE. In part two of a multi-issue endeavor, Ron Roach, W2FUI, continued his writings on his visits to China where he met and befriended many Chinese hams. This month his column centered on news of the opening of many "Net Bars" where for

thirty-five to fifty cents (U.S.) per hour you could rent on-line PC's otherwise not available to citizens. Ed Holdsworth, N2EH, wearing his RACES Director hat, wrote to tell of public service events already scheduled for the year, including: Ginna Radiological Pre-Drill on May 2nd, the actual Ginna Radiological Drill on June 6th, Tour de Cure on June 9th, Stuart Horse Trials on July 28th and the Walnut Hill Carriage Show August 15 through the 20th. Printed in this issue was a letter from Kay Craig, WT3P, 2nd VP ARRL, congratulating RaRa on their 70th year of service to the Amateur Community. Bill Hopkins, AA2YV, took time off from his Professorship roles to share his love of anything in the vintage radio arena, with a very entertaining article on the BC-348 military receiver. Bill is still writing today in the Antique Wireless Association's quarterly publication "The AWA Journal," where he takes a featured museum artifact and tells its story to eager readers. Inside of Ed Gable's, K2MP, DX/Contesting column local DX'ers will find and fondly remember on-air battles to log; 3Y0C from Bouvet, YK9A from Syria, D68C Comoros, PW0S at St. Peter and Paul Rocks and Malpelo by popular South American DX'er Pedro HK3JJH/HK0. It was reported that Fred Gern, K2FR, was reported a Silent Key. Fred is remembered by the RDXA folks as a very enthusiastic member and contributor to their monthly newsletter. There were no Want Ads in this issue but a new commercial advertiser was the Savannah Bank, 3140 Monroe Avenue, with Ron, WA2OXE, Bank Regional Executive.



the RARa RAG

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An Official ARRL Visit At The March RARa Meeting

Peter Fournia, W2SKY

Our ARRL Western NY Section Manager, Scott Bauer W2LC, will address us at the March 2nd meeting. The topic might best be called "The care and feeding of Amateur Radio". This will be an informal exchange of information between the audience and our section manager. It is a golden opportunity for you to gain insight into the ARRL and how it is administered in the field. It is also one of your best chances to influence the direction of our hobby! The ARRL has a profound influence on FCC and international decisions. You can influence the ARRL. One of Scott's purposes is to listen to your opinions and arguments. It will impact his actions and the messages he carries back to our Atlantic Division Director Bernie Fuller.

Our hobby is still reacting to changes in technology, our life style and pace of living, global issues and political issues. Some of the hottest issues we face are: more restrictions to antennas, possible elimination of CW licensing requirements at the international level, elimination of the Novice and Advanced class license by the FCC, and our shrinking membership... to name a few. The ARRL has been coping by adjusting operations and programs.

Do you think that the ARRL is on top of this change? Are they over reacting, under reacting, following or correctly anticipating change? Are you aware of what the ARRL is doing about it?

Scott will be addressing many of these issues. In some cases the ARRL has clear direction and

continued on page 6

RARa Meeting

March 2, 2001
Henrietta Fire Hall,
3129 E. Henrietta Rd.

ARRL Update

Presented by Scott Bauer, W2LC
Western New York Section Manager

Hamfest Programs - Part II

Lloyd R. Caves, WB2EFU

It is getting closer to the Rochester Hamfest/Atlantic Division Convention dates all the time. Are you thinking about the Hamfest yet? It is never to early to start you know? Even though a large percentage of the Hamfest is outside (the flea market) don't forget what is taking place inside. All the large manufacturers and dealers will be inside the Dome. Not only that but the large Awards Banquet on Friday evening is also inside at the Marriott Hotel. Get your tickets early and join your friends for dinner and fun. Come right from the fair grounds to the Marriott, no need to go home and get cleaned up first. This should be one long day of enjoyment!

The Hamfest committee is also lining up some very interesting speakers and topics for you. Below are just a few of the programs that you may want to keep in mind and get on your schedule.

Digital Communications:

Bill Hopkins, AA2YU will present a program on digital modes available to amateurs with emphasis on PSK31 and MFSK16. This is a good place to learn more about these modes and how you can get started on them. See what equipment is used and how easy they can be to get on the air.

Hands On Antenna Construction:

Ed Hare, W1RFI, the ARRL Laboratory Supervisor, shows you how to build a 2-meter Yagi beam using parts and materials you can buy at Home Depot! It can't be that hard — Ed actually builds the antenna with a blowtorch while wearing a tie, all the while telling you about how he designed this simple antenna that actually works on the air. If he is as good as he says he is, he will have plenty of time to answer your antenna questions. See if you can "Stump the Speaker" by asking him a question he can't answer!

DXCC in 2001:

This will be an update of issues relating to the ARRL DXCC program, including the addition of new band-DXCC awards for 12 and 17 meters, the DXCC Challenge and DeSoto Cup competition. Dan Henderson, N1ND, ARRL Contest Branch

continued on page 4

The March meeting was presented by Mr. Pete Chaston of the National Weather Service in Rochester, New York. Mr. Chaston told us, amongst other things, the effect the Mount Saint Helens eruption had on our weather and all of the new electronic forecasting gadgets at their office. Writing for the Rochester VHF Group was Harold Mundy, KD2K, who wrote to inform readers on the results of the just completed ARRL January VHF Contest. This year the Group'ers managed to collect some 900,000 points topping last year by 50,000. 192 logs were submitted. Highlighted top scorers by entry type included: WA2ZNC Highest Single Op, K2YCO (sk) 2nd High Single Op, W2UTH (sk) 2nd High Multiop, WB2KIW Highest phone, AF2K Highest FM and WA2YEK highest YL. Otto Bluntzer, WB2RJB, wrote on the just completed RaRa Valentine Day Dinner Dance where seventy participants enjoyed the live band and great sit down dinner. And possibly the most devastating news in recent time was penned by RaRa Board reporter Dave Coleman, N2AOB, who told of the Board's decision to stop supplying beer at the next RaRa picnic. It will be strictly BYOB as the new policy Dave said in a soberly manner. Reports said some of the RDXA gang fainted upon reading (Ed). News from the Rochester Radio Repeater Association (RRRA) via Craig Stolze, WB2AQQ, told of many improvements and upgrades to the Bristol repeater 78/18. Improvements included an upgraded autopatch with a Rochester Exchange, a remote receiver in Rochester, user selected squelch sensitivity and emergency battery power with automatic power saver mode. A user guide was also provided covering the new features. The RRRA further announced they would conduct a Ham Auction, along with the Rochester VHF group, on February 20th at the Police and Fire Academy on Scottsville Road. The popular RaRa Directory of local hams may not list some members, reported Directory Editor Helen Smith, WA2YRH. She reported the Directory listing only covers 144, 145 and 146 Zip codes as well as Amateur call signs with a two for the number. As a result KA8WJH might not be listed. The fix is easy but requires local editing. Contact me, says

Helen. A long term RaRa Rag contributor, concentrating on his expertise as a DX Operator, Mr. Rick Berg, WA2RLQ (sk), wrote in this issue with a great title and even better message; "A Pileup: Last Place to Start DXing." There were no Silent Keys listed but you could buy a Heathkit SB-230 Linear Amplifier for \$350.00 from Al Mumby, WB2MCP (sk). A long term Commercial Advertiser was Harvey's Ham Store, KB2LB, Caldonia, NY.

And finally, a retraction, the first in the long history of this Rag column. It seems that in the December, 2020 issue of this 40 Year column I briefly mentioned that RaRa Jackets were available and you should contact Gil Chapin, WB2UTI (sk) for ordering. Well, Gil and his wife, now residing in Florida, thought that was very interesting and Gil said no, not ready to go yet! So we are now aware that Gil is alive and well and we're certainly happy to know that. Sorry, old buddy. Thanks to Tim MaGee, WB2KAO, who chatted with Gil via Echolink just yesterday and passed this along to me. Ed..

The RaRa Rag

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RECENT ADVANCES IN METEOROLOGY MARCH 6th RaRa MEETING

Mr. Pete Chaston, Director of the National Weather Service Office in Rochester, will be the featured speaker at our RaRa Meeting March 6th. As usual the meeting will be called to order at 8 p.m. in the Statesman's Club meeting room. Pete plans to cover recent weather trends, including ice-age theories and the effect on the weather from the Mt. St. Helens Volcano. He will also tell us about new equipment for recent advances in meteorology. Following a short movie "Tornado" there will be a question and answer period.

The meeting will be our fourth at the Statesman's Club on the 19th floor of the First Federal Savings & Loan Building Plaza, located at State Street/Main Street intersection downtown. If you park under the First Federal Building your parking will be free, secure and dry.

Enter the alley marked Corinthian Street between the Americana Hotel and First Federal Plaza, off State Street. The end of this alley is a city parking garage which is available to you but is not free. Driving down Corinthian Street, before you get to the city parking watch for the entrance to the First Federal Parking garage on your right. Stop at the entrance to take off or lower, or tie down your antenna. This part is important as an antenna above the car roof may trigger the building sprinkler overhead. "No free car washes allowed please". A guard will observe your car via closed circuit tv and will ask your destination as you approach the gate. You will reply that your destination is the RaRa meeting. Then the gate will open for you to enter and park. Get to the lobby via one of the nearby elevators.

Upon arrival in the lobby from the garage elevator you must take a different elevator to the RaRa Meeting rooms on the 19th floor. You will be getting off for the "Statesman's Club".

ROCHESTER VHF GROUP JANUARY VHF SWEEPSTAKES

by H. E. Mundy, KD2K

I would like to thank all those people who participated in the January VHF Contest. Through their efforts we have a very strong contest entry with well over 900,000 points. At this time I anticipate this year score will be 50,000 points above last years.

At the February VHF Group meeting certificates were presented to the following stations for their achievements in the contest:

WA2ZNC - Highest single operator score
K2YCO - Second highest single operator and/or highest CW score
N2JY - Third highest single operator
K2JFV - Highest multioperator score
W2UTH - Second highest multioperator score
WA2WVL - Third highest multioperator score
WB2KIW - Highest SSB/AM score
AF2K - Most 2 Meter FM contacts
K2RHS - Most improved score
WA2YEK - Highest YL score
K2RHS/WA2YEK - Highest OM-YL
KA2HVQ - Most improved new participant
W2EQW - First log submitted

This year we had 192 logs submitted compared to 182 logs submitted last year, a small but noteworthy improvement. The station with the most sections worked was W2UTH with 23 which included Bermuda, VE1, Iowa, Kansas and Nebraska.

It was a very enjoyable contest for me and I am looking forward to meeting everyone in the 1982 January VHF Sweepstakes.

Rochester HAMFEST

MAY 15 - 16

Let's make it a big turnout!

VE TEAM

Testing on Saturday March 20th

At a **NEW LOCATION**

Damascus Shriners
979 Bay Rd, Webster, NY 14580
With COVID Restrictions
Please Read Carefully!

A **COVID Questionnaire**

Must be Filled Out Either On-site or
Prior to Attending

Online Preregistration is required
The session size is limited to 20

Click to register:

[https://hamstudy.org/
sessions/5fbbfa6b10802c14927b512d/1](https://hamstudy.org/sessions/5fbbfa6b10802c14927b512d/1)

Applicants must supply their own PPE
(Mask is a minimum), pen, pencil, calculator and
be COVID negative and symptom free

Testing begins at 10:00AM.
Testing is free!

CW ELMERS

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	w2ned@frontiernet.net
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Pete Fournia	W2SKY	Penfield	pfournia@gmail.com
Bill Hopkins	AA2YV	Brighton	whopkin4@naz.edu
Bob Karz	K2OID	Webster	rkarz@rochester.rr.com
Joe Rowe	AG2Y	Webster	ag2y@rochester.rr.com
Harry Williams	KF2TV	Webster	harryw7872@gmail.com

LICENSE TEST RESULTS

Dale Pensgen	WB2YQI	E	Jeremy Cole	KD2MZY	G
Andrew Hughes	KD2VRR	T	Michael Warren	KD2SPX	G
Jeremy Martin	KD2TJC	E	Lee Moore	KD2TXB	G
Michael Sweeney	KD2VQN	G	Michael Kennerknecht	N2MAK	E
Seward Heckman	KD2VRU	T	John Macclellan	KD2VRW	T
Collin Sweeney	KD2VRX	T	Richard Szczepanski	KD2VRY	T
Jeffrey Williams	KD2VRZ	T	Charles Rishel	W2CHZ	E
Robert Schultz	W2RJS	G	Thomas Bennett	KD2VRS	T
Brian Cassidy	KD2VRT	G	Michael Littlefield	KD2VRV	T

New licensees names are in BOLD

RADIO ELMERS

Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Dave Carlson	N2OA	Batavia	kdcarlso@gmail.com
Lawrence Hill	N2AJX	Henrietta	lawrence.hill@rit.edu
Rich Hoffarth	K2AXP		rhoffarth2000@yahoo.com
Bill Kasperkoski	WB2SXY	Pittsford	wb2sxy@gmail.com
Don Kiser	AC2EV	N Greece	dkiser100@gmail.com
Karl Heinz Kremer	K5KHK	Chili	k5khk@khk.net
Tim Magee	WB2KAO	Greece	585-704-5747
Mike Moore	KC2NM		mikemoore@ieee.org
Peter Schuch	WB2UAQ	Perinton	pschuch@rochester.rr.com
Forest Shick	WA2MZG	Webster	fshick3@gmail.com
Dave Timmons	W2DST	N Greece	dstimmons@gmail.com
Steve Verzulli	KA1CNF		verzulli@yahoo.com
Dan Waterstraat	W2DEW	Henrietta	higreen@rochester.rr.com

RaRa CALENDAR

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

March 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB RSGB 80M Club Champ, Data WW SSB Activity Contest ARS Spartan Sprint	2 RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test Fray	3 RaRa Monthly Mtg ONLINE 7pm ROC City Net 1.923 MHz, 7 pm CW Ops Mini-CWT Test UKEICC 80m Contest	4 RaRa BoD 6:30pm ONLINE ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB SKCC Sprint Europe NCCC Sprint Ladder QRP Fox Hunt NRAU 10m Activity Contest RTTYOPS Weeksprint NCCC Sprints	5 K1USN Slow Speed Test Novice Rig Roundup	6 ROC City Net 28.405 MHz, 7:30p Novice Rig Roundup Wakeup QRP Sprint Ukraine RTTY Contest ARRL Inter.DX Contest SSB
7 Novice Rig Roundup Wakeup QRP Sprint Ukraine RTTY Contest ARRL Inter.DX Contest SSB UBA DX Contest, CW NSARA Contest WAB 3.5MHz	8 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB Novice Rig Roundup WW SSB Activity Contest	9 RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test Fray Novice Rig Roundup	10 ROC City Net 1.923 MHz, 7 pm CW Ops Mini-CWT Test Novice Rig Roundup VHF-UHF FT8 Contest AWA Rollins Memorial Contest	11 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB Novice Rig Roundup AWA Rollins Memorial Contest QRP Fox Hunt RTTYOPS Weeksprint NCCC Sprints	12 K1USN Slow Speed Test Novice Rig Roundup AWA Rollins Memorial Contest	13 ROC City Net 28.405 MHz, 7:30p Novice Rig Roundup AWA Rollins Memorial Contest RSGB Commonwealth Contest DIG QSO Party, SSB South America 10M Contest Stew Perry Topband Challenge F9AA Cup, SSB EA PSK63 Contest OK, ID, QCWA QSO Parties
14 Novice Rig Roundup AWA Rollins Memorial Contest RSGB Commonwealth Contest DIG QSO Party, SSB South America 10M Contest Stew Perry Topband Challenge F9AA Cup, SSB EA PSK63 Contest OK, ID, WI, QCWA QSO Parties	15 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB OK1WC Memorial Bucharest Digital Contest RSGB FT4 Contest WW SSB Activity Contest	16 RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test Fray CLARA Chatter Party	17 ROC City Net 1.923 MHz, 7 pm CW Ops Mini-CWT Test	18 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB QRP Fox Hunt RTTYOPS Weeksprint NCCC Sprints BCC QSO Party	19 K1USN Slow Speed Test	20 ROC City Net 28.405 MHz, 7:30p BARTG HF RTTY Contest Russian DX Contest VA QSO Party Feld Hell Sprint
21 BARTG HF RTTY Contest Russian DX Contest VA QSO Party	22 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB OK1WC Memorial WW SSB Activity Contest	23 RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test Fray	24 ROC City Net 1.923 MHz, 7 pm CW Ops Mini-CWT Test	25 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB QRP Fox Hunt RTTYOPS Weeksprint NCCC Sprints RSGB 80M Club Contest, SSB	26 K1USN Slow Speed Test FOC QSO Party	27 ROC City Net 28.405 MHz, 7:30p CQ WW WPX Contest, SSB
28 CQ WW WPX Contest, SSB	29 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB WW SSB Activity Contest OK1WC Memorial	30 RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test Fray QCX Challenge	31 ROC City Net 1.923 MHz, 7 pm CW Ops Mini-CWT Test			

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES NEWS

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August, November and December. Anyone interested, members and non-members, are welcome to attend.

Until further notice, our meetings are via Zoom. Please check our website for any schedule changes. Prospective members can request an invitation by email to: secretary@monroecountyemcomm.org.

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the N2MPE 146.61 MHz (-) 110.9 Hz PL and 444.45 (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC.

There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

Facebook : Monroe County Amateur Radio Emergency Service, Inc.

Twitter @MCARESNY

Severe Weather Alerts: Winter may bring severe weather in the form of heavy snow storms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/skywarn>

Monroe County ARES
Ralph Dutcher, Net Control - KD2BDZ@arrrl.net

ROCHESTER DX ASSOCIATION, RDXA

Tuesday 16 March, 2021 - RDXA zoom meeting - 7:30pm.

Program: TBA

Login information can be found on our website - rdxa.com



ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRA will not be having its regular meeting on March 19th due to the Pittsford Town Hall's meeting room being closed. However, the club is having Zoom meetings on our regularly scheduled meeting nights on the 3rd Friday of each month starting at 7:30PM lasting 40 minutes. All paying and non-paying members should receive an invite in their email. All you have to do is hit the link in your email, or go to zoom in your browser and type in the meeting ID number and pass code and you're in. You may have to install the Zoom client when prompted. Or go to <https://zoom.us/download>. Remember to activate your video & audio from the bottom of the screen so everyone can see and hear you. If you use the android client for your cell phone you will only be able to see a max of 4 pictures on the screen at a time. If you use the windows client you can have as many as you want. We are currently attempting to modify our club bylaws to resume all our regular meetings on Zoom until Covid-19 passes.

Stay tuned to our web site, www.k2rra.org for current information on whether our meeting place will be available.

The elected RRRA officers for 2020 - 2021 are, Bob Shewell, N2HJD, President, Bob ODell, N2BZX, Vice President, Ed Wilkonski, KC2WM Secretary, and Bob Smith, NS2B-Treasurer / Membership Chairman. RRRA also accepts donations to the club. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site www.k2rra.org

ROCHESTER VHF GROUP

You are invited to join us on-line & on-the-air! We're here to help you to use the license that you worked so hard to get.



Check out what we do by visiting our website at <http://RVHFG.org> to start.

Join our e-mail group by sending a message to RVHFG+subscribe@groups.io.

**Join our weekly on-the-air nets on SSB:
2 meter band - Monday 9 PM 144.260 USB
6 meter band - Thursday 9 PM 50.200 USB**

**No VHF SSB radio (yet) to join the nets?
Log-in to Echolink [ka2ene-L #23426](#)**

We can help to answer the question, "What radio should I buy?" Here's a list of HF+++ radios, those with the HF bands and at least three VHF bands, giving you access to all sorts of VHF fun. Research each one to see which serves you best. Ask questions on our email list. We're here to help!

Yaesu FT-100D	Yaesu FT-817	Yaesu FT-818
Yaesu FT-847	Yaesu FT-857	Yaesu FT-897
Icom IC-706MKIIG	Icom IC-7000	Icom IC-7100
Icom IC-9100	Kenwood TS-2000	

Some are older models and some are newer models, but all provide access to the 6 meter, 2 meter, and 70 centimeter bands using both traditional FM and the exciting narrow-band SSB mode that supports unexpectedly long-distance (100's of km's routinely and 1,000's of km occasionally) VHF communication. These are good all-around radios no matter what club you end up affiliating with later. We hope its us.

XRX AMATEUR RADIO CLUB

The XRX Amateur Radio Club meets the 2nd Thursday of each month. The meetings are 6PM at the Webster Recreation Center. Look for details on our website <http://xarc.us>

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads, New York. Our Chemung County ARES (CCARES) organization meets the first Tuesday of the month except February on Harris Hill, next to the National Soaring Museum. Both organizations serve amateurs in Chemung, Steuben and Schuyler counties in New York and Bradford and Tioga counties in Pennsylvania. All are welcome to attend our meetings.

Both CCARES and ARAST monthly meetings are being held online until further notice. Check out the Upcoming Events at our website, www.arast.info, for details.

Our 2021 Hamfest is set to take place at the Chemung County Fairgrounds in Horseheads, New York, on Saturday, September 25, 2021.

Don't forget to check out our repeaters when you visit the area. N3AQ 147.36(+) and the W2ZJ 146.70(-) are the principal 2-meter repeaters. The latter can also be accessed via Echolink node 574415 with the call sign KD2QND-R. A full list of repeaters that can be heard in the Twin Tiers area surrounding Chemung County can be found at

http://www.arast.info/arast_website/public/repeaters.php.

We also invite you to check out our new 6 meter net on Wednesday evenings at 9 p.m. local time on 50.200 MHz USB. The net usually lasts approximately one hour. Operators are encouraged to check in and participate in the round table discussions or simply stop by from time to time. Topics are wide-reaching and are not confined to 6 meters--although discussions tend to center around 6-meter equipment, antennas, propagation, latest band openings and grid squares worked, as well as AM, FM and FT-8 use of the 6-meter band. We would welcome more participation from the western part of our area.

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refreshers period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in!

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communication modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and publicly accessible DSTAR hotspots, Yaesu System Fusion systems on non-club repeaters and DMR systems through repeaters and personal hotspots. DCAP members meet for breakfast at 7AM nearly every Saturday morning at Rikki's Family Restaurant in the village of Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL tone of 110.9Hz.

DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

The purpose of our association is to:

- promote interest in Amateur Radio communication and advancement of the radio art.
- conduct programs, training, and exercises that enhance the skills of the members, and educate the community.
- develop ties with other services and establish relationships with community organizations.
- provide emergency communication services.
- promote enjoyable Amateur Radio related events.

The association was incorporated in 1991 and has been a vibrant part of the community ever since. We have a very active VE testing program. We also participate in numerous public events (the Wineglass Marathon and the Wine Country Classic Boat Regatta are two of the largest).

The Keuka Lake Amateur Radio Association Hamfest is scheduled for August 21st at the Howard Community Center and we will have testing for anyone wanting to be a new Ham or upgrade!. For those who want to we offer free camping Friday night, Saturday night and leave by noon Sunday. All part of your Hamfest ticket. Contact KLARA via email if you wish to camp. Hope to see you at the friendliest little hamfest and a great breakfast shared with awesome Hams!

ORLEANS COUNTY AMATEUR RADIO CLUB

The Orleans County ARC meets every 2nd Monday of the month at the Orleans County Emergency Operations Center, 14064 West County House Road, Albion, NY 14411. Doors open at 6:00PM, meeting starts at 7:30PM. Anyone with an interest in amateur radio is welcome. Program topics vary from month to month.

The club has an open two meter net every Tuesday night at 9:00PM local time on the club repeater, WA2DQL/R (145.27 -600KHz offset, 141.3 tone). Everyone is welcome to check in.

See the club website <http://ocarc.us> or contact club Secretary Ron Craig, N5BNO for more information.

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The meeting for Wednesday, March 10th will be a virtual meeting on the SIARC 146.820 Repeater. There will not be License Exam Testing. Check the SIARC website for updates.

SIARC is also holding a Health and Welfare NET Monday through Friday each week at 2000 hours on the SIARC 146.820 repeater (located in Canandaigua, NY), Tone 110.9. This net is to pass along general information and keep hams in touch. All hams are invited to participate

GENESEE VALLEY AMATEUR RADIO ASSOCIATION

Email n3dsp@lafireline.net for details.

INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Visit our website at <http://www.interlockroc.org/>,
contact us at info@interlockroc.org,
or find us in #interlock on Freenode IRC.

ROCHESTER MAKERSPACE

For more information visit <https://www.makerspacerochester.org/hamradio>

ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rochesterastronomy.org/>

RARA OFFICERS, DIRECTORS AND COORDINATORS

OFFICERS

President: Tim Barrett, K9VB	(646) 496-5015	president@rochesterham.org	Treasurer: Mike Moore, KC2NM	(585) 721-0011	treasurer@rochesterham.org
Vice-President: Brian O'Connor, KA2CGB	(585) 721-2346	vicepresident@rochesterham.org	Secretary: Karl Heinz Kremer, K5KHK	(585) 210-0840	secretary@rochesterham.org

DIRECTORS

Tim Brown, WB2PAY	(585) 750-2087	education@rochesterham.org	George Lama, KC2OXJ	(585) 764-0618	KC2OXJ@gmail.com
David Enright, K3WHD	(585) 737-3657	denright1228@gmail.com	Scott Theis, W2LW	(845) 774-9809	sa_theis@hotmail.com
Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com			

ACTIVITY COORDINATORS

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	Public Service	Mike Moore, KC2NM	publicservice@rochesterham.org
Club Station Trustee	Dave Enright, K3WHD	denright1228@gmail.com	Raffle Administrators	Forest Shick, WA2MZG Jeff Sonstein, KD2RRB	wa2mzg@arrl.net
Education	Tim Brown, WB2PAY	education@rochesterham.org	RARA Academy	Tim Brown, WB2PAY Scott Theis, W2LW	education@rochesterham.org sa_theis@hotmail.com
Hamfest Co-Producers	Tim Guyot, KB1POP George Lama, KC2OXJ Dave Mitchell, KD2RAF Mike Moore, KC2NM Brian Duff, WM2W	hfpublisher@rochesterham.org	RARA RAG Editor	Forest Shick, WA2MZG	editor@rochesterham.org
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Membership Secretary	Tim Barrett, K9VB	membership@rochesterham.org	Webmaster	Scott Theis, W2LW	webmaster@rochesterham.org

ROCHESTER AREA RADIO CLUB CONTACTS

Antique Wireless Association (AWA)

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APRIL RAG DEADLINE MARCH 15, 2021

RARA MEETS AT 7PM ON THE FIRST WEDNESDAY OF EACH MONTH. JOIN US ON-LINE AT:

<https://attendee.gotowebinar.com/register/5704930843030496012>

CONTACT WEBMASTER@ROCHESTERHAM.ORG FOR SUPPORT

Rochester Area Repeater Listing

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